



# Flygt Submersible Pumps

AVAILABLE FOR RENTAL AND SALE



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# Flygt 3000 Series

## Better heat transfer

Our specially designed and manufactured motor provides enhanced cooling because heat losses are concentrated around the stator. Trickle impregnated in resin (Class H insulation), the stator windings are rated at 180°C (355°F) and enable up to 30 starts per hour.

## Efficient cooling

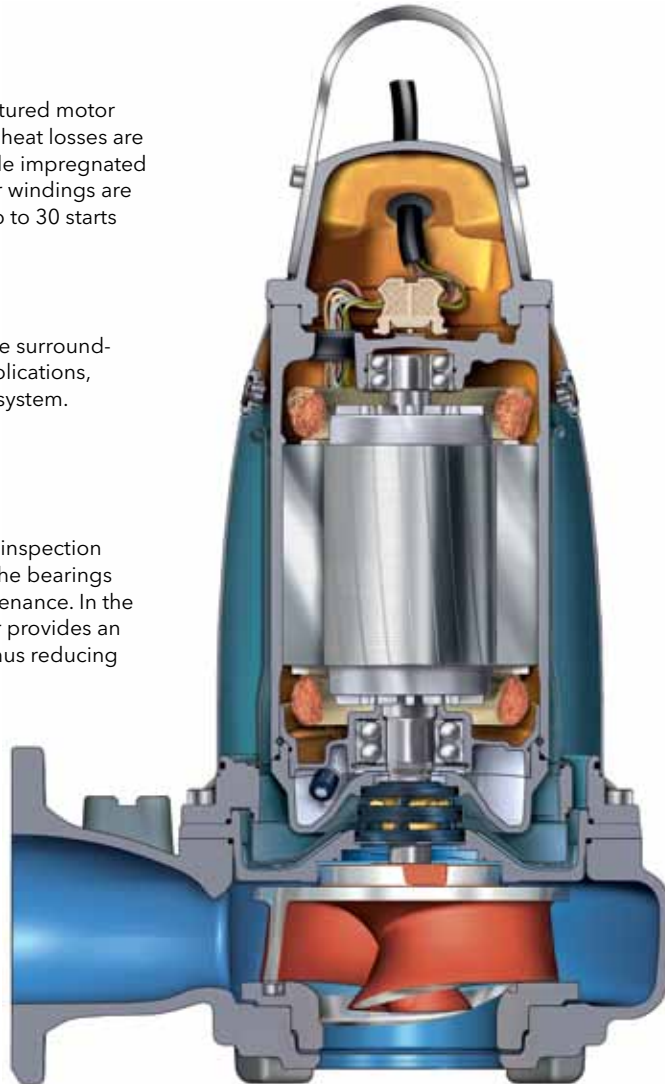
These pumps are cooled either by the surrounding liquid or, in more demanding applications, with an internal closed-loop cooling system.

## Inspection chamber

To increase operational reliability, an inspection chamber between the seal unit and the bearings enables rapid spot checks and maintenance. In the case of a seal failure, a built-in sensor provides an early warning of any fluid build-up, thus reducing the risk of expensive repair work.

## Compliance

Each pump is tested and approved in accordance with national and international standards, including IEC 34-1 and CSA. Pumps are available in explosion-proof versions for use in hazardous environments, and are approved by the Factory Mutual, European Standard and IEC.



## Cable entry

Water-resistant cable entry provides both sealing and strain relief functions to ensure a safe installation.

## Sensors

Thermal sensors embedded in the stator windings prevent overheating, and a leakage sensor in the inspection chamber minimizes the risk for bearing and stator failure.

## Long-life bearings

Durable bearings provide a minimum service life of 50,000 hours.

## Enduring seals

The Flygt Plug-in™ seal with the Active Seal™ system offers increased sealing reliability and zero leakage into the motor, thereby reducing the risk of bearing and stator failure.

## Flygt Plug-in™ seal with Active Seal™ system



Inner seal with laser-cut spiral grooves.



The Flygt Plug-in™ seal is a seal unit that eliminates the risks associated with incorrect installation and careless handling. It comprises the Active Seal™ system in one easy-to-handle unit.

The Active Seal™ system is a patented zero-leakage double-seal system that actively prevents liquid from entering the motor cavity, thereby reducing the risk for bearing and stator failure. It comprises a unique inner seal that acts as a micro-pump and an outer seal that prevents leakage

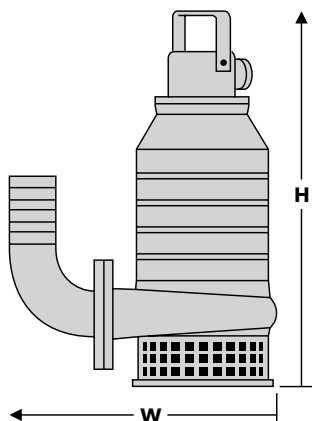
of pumped media into the buffer chamber.

Laser-cut grooves on the inner seal create a hydrodynamic pumping effect that prevents any leakage from entering the motor.

This translates into enhanced sealing reliability, reduced downtime and fewer unscheduled maintenance checks. In addition, regular service inspections can be prolonged in many applications.

# Stainless Steel 3000 Series Sludge and Solids-Handling Sewage Pumps

## CS/DS 3060 (SS)



Model number: 3060.390  
 Motor rating: 1ø: 2.5 HP @ 3400 RPM  
 3ø: 3.7 HP @ 3300 RPM

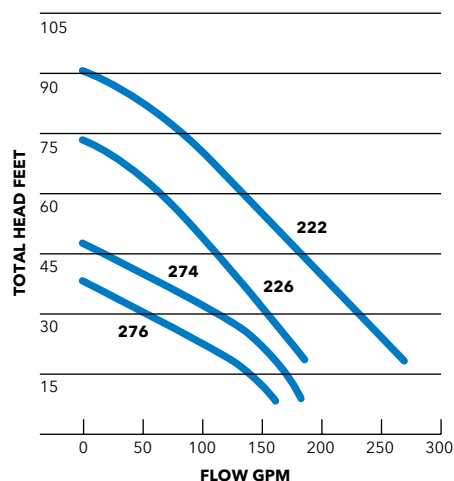
Voltage (1ø): 230V  
 Full load amps: 11A

Voltage (3ø): 200V 230V 460V 575V  
 Full load amps: 10.8A 9.4A 4.7A 3.8A

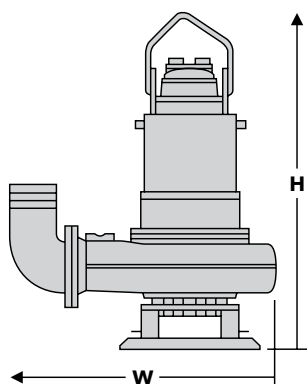
Versions: CS: 3" Standard  
 Imp. Code 226 (1ø), 222 (3ø)  
 DS: 3" Vortex  
 Imp. Code 276 (1ø), 274 (3ø)

Hose connection: Slip-on  
 Pump dimensions: 16 1/2" W (max.) x 23 1/2" H (max.)  
 Max. weight (lbs.): 95

Description: CS/DS: Stainless steel construction; rests on bottom strainer. CS: Open impeller, with diffuser. DS: Vortex type impeller.



## CS 3201 (SS)



Model number: 3201.280  
 Motor rating: 30 HP @ 860 RPM  
 35 HP @ 1170 RPM  
 47 HP @ 1760 RPM

Voltage (3ø): 230V  
 Full load amps: 82/94/116A

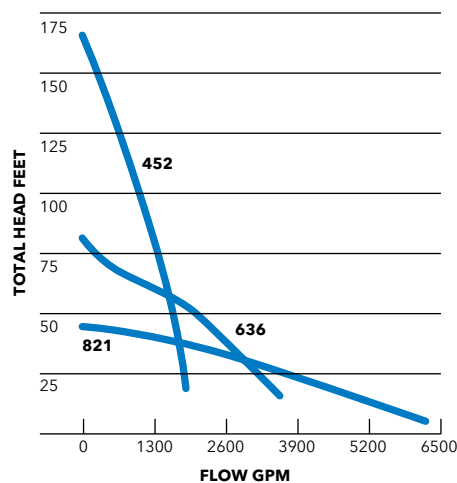
Voltage (3ø): 460V 575V  
 Full load amps: 41/47/58A 33/38/46A

Versions: 6" High hd., Imp. Code 452 (47 HP)  
 8" Std., Imp. Code 636 (35 HP)  
 10" High volume  
 Imp. Code 821 (30 HP)

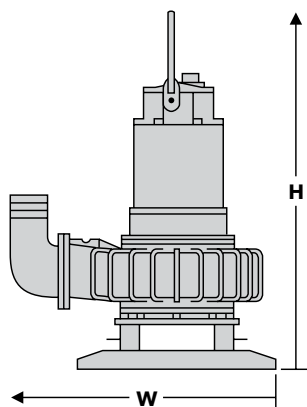
Hose connection: Slip-on  
 Pump dimensions: 56" W (max.) x 63" H (max.)  
 Max. weight (lbs.): 1600

Description: Stainless steel construction; closed, solids handling impeller, wear rings; rests on bottom stand.

Options: Explosion proof (FM approved) variant 3201.290



## CS 3300 (SS)



Model number: 3300.280  
 Motor rating: 60 HP @ 1170 RPM & 875 RPM  
 45 HP @ 875 RPM  
 77, 88 HP @ 1170 RPM

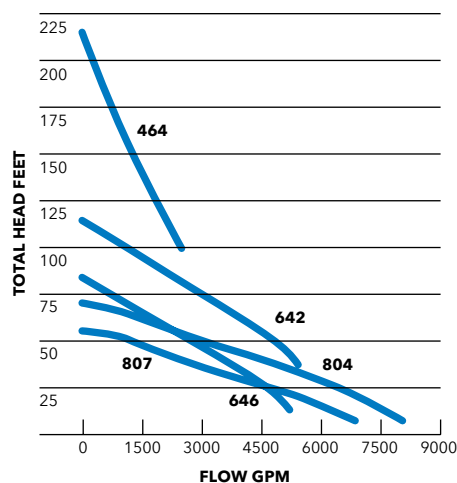
Voltage (3ø, 60 HP): 460V 575V  
 Full load amps: 73/80A 58/65A

Voltage (3ø, 45/77/88 HP): 460V 575V  
 Full load amps: 60/91/108A 48/73/86A

Versions: 6" High hd., Imp. Code 464 (88 HP)  
 8" Standard  
 Imp. Code 646 (60 HP), 642 (77 HP)  
 10" High volume  
 Imp. Code 807 (45 HP), 804 (60 HP)

Hose connection: Slip-on  
 Pump dimensions: 56 3/4" W (max.) x 75 3/4" H (max.)  
 Max. weight (lbs.): 2590

Description: Stainless steel construction; closed, solids handling impeller, wear rings; rests on bottom stand.



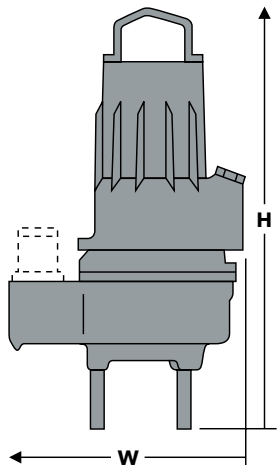


# 3000 Series Solids-Handling Sewage Pumps

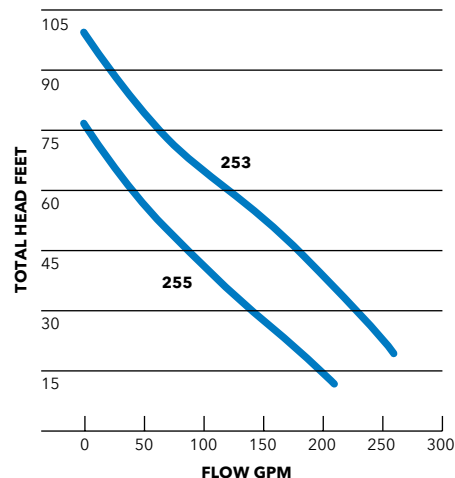
## CLOSED IMPELLERS

CS models feature closed wastewater impellers designed for pumping typical wastewater solids as found in many sewage applications. Usually, a stationary brass or nitrile rubber wear ring is set into the volute bottom, surrounding the lower part of the impeller, to prevent wear and maintain hydraulic efficiency. Larger models may also utilize a stainless steel rotating ring, tightly fitted around the lower part of the impeller, to further reduce wear.

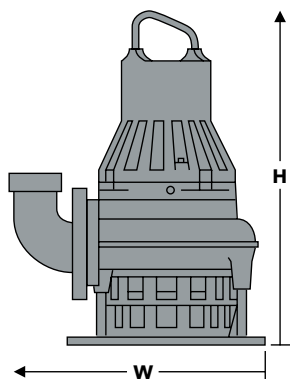
### CF/CS 3068



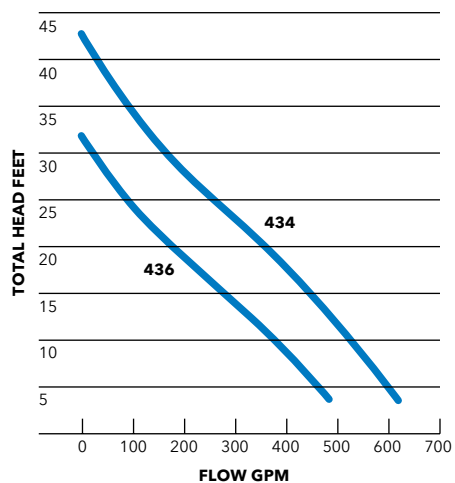
Model number: 3068.180  
 Motor rating: 1ø: 2.3 HP@3300 RPM  
 3ø: 2.7, 3.8 HP@3300 RPM  
 Voltage (1ø): 230V  
 Full load amps: 10A  
 Voltage (3ø): 200V 230V  
 Full load amps: 8.5/12A 7.5/10.4A  
 460V 575V  
 3.7/5.2A 2.9/4A  
 Versions: 2" High head  
 Imp. Code 255 (1ø), 253 (3ø)  
 Hose connection: Female NPT, Slip-on (optional)  
 Pump dimensions: 14 1/8" W (max.) x 22 3/8" H (max.)  
 Max. weight (lbs.): 84  
 Description: Cast iron construction; closed solids handling impeller with thrulet, rests on legs or stand.  
 Options: Explosion proof (FM approved) variant 3068.090



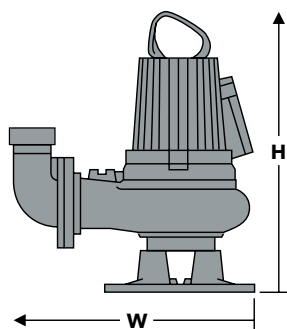
### CS 3085



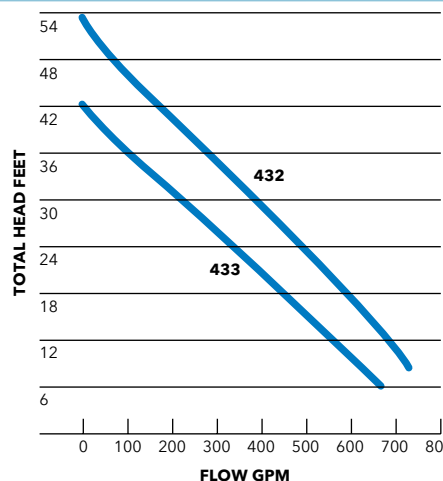
Model number: 3085.183  
 Motor rating: 1ø: 2.4 HP@1750 RPM  
 3ø: 2.2, 3 HP@1750 RPM  
 Voltage (1ø): 230V  
 Full load amps: 10A  
 Voltage (3ø): 200V 230V  
 Full load amps: 7.8/10A 6.7/9A  
 460V 575V  
 3.4/4.5A 2.7/3.6A  
 Versions: 3" Std., Imp. Code 436 (1ø, 3ø)  
 434 (3ø, 3HP only)  
 Hose connection: NPSM threaded, or slip-on  
 Pump dimensions: 19" W (max.) x 23 3/4" H (max.)  
 Max. weight (lbs.): 175  
 Description: Cast iron construction; closed solids handling impeller with thrulet, wear ring; rests on stand.  
 Options: Explosion proof (FM approved) variant 3085.092  
 Warm liquid versions available



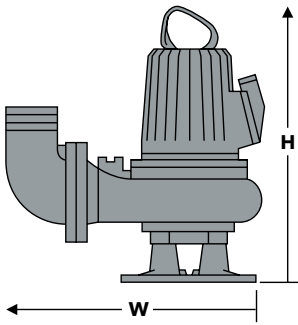
### CS 3102



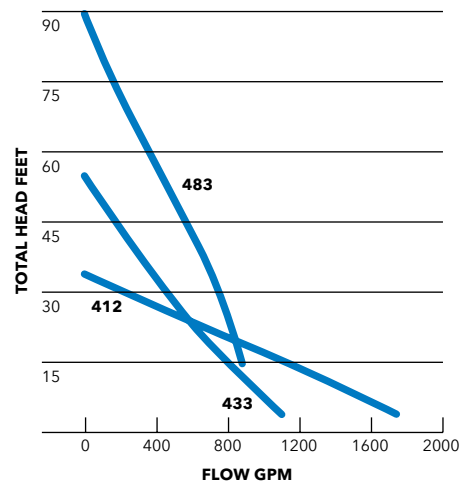
Model number: 3102.181  
 Motor rating: 1ø: 3.9 HP@1730 RPM  
 3ø: 5 HP@1730 RPM  
 Voltage (1ø): 230V  
 Full load amps: 16A  
 Voltage (3ø): 200V 230V 460V 575V  
 Full load amps: 15A 13A 6.6A 5.3A  
 Versions: 4" Standard  
 Imp. Code 433 (1ø, 3ø), 432 (3ø)  
 Hose connection: NPSM threaded, or slip-on  
 Pump dimensions: 24" W (max.) x 27 3/4" H (max.)  
 Max. weight (lbs.): 245  
 Description: Cast iron construction; closed solids handling impeller with thrulet, wear ring; rests on stand.  
 Options: Explosion proof (FM approved) variant 3102.090  
 Warm liquid version available



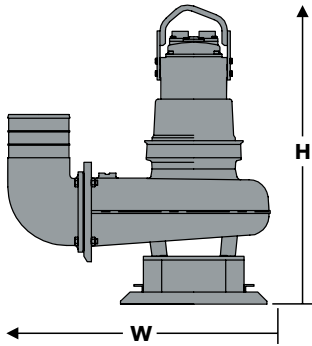
## CS 3127



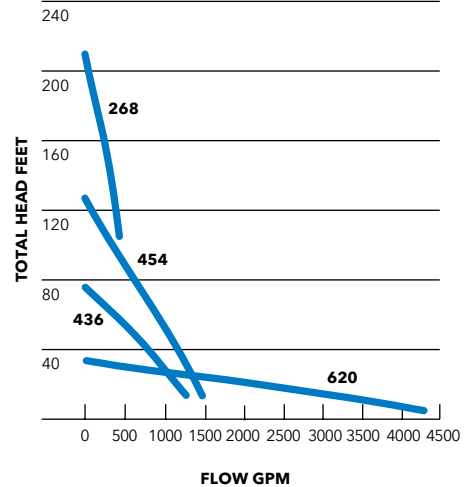
Model number: 3127.182  
 Motor rating: 1 $\phi$ : 7.5HP@1730 RPM  
 3 $\phi$ : 10HP@1730 RPM  
 Voltage (1 $\phi$ ): 230V  
 Full load amps: 30A  
 Voltage (3 $\phi$ ): 200V 230V 460V 575V  
 Full load amps: 29A 26A 13A 10A  
 Versions: 4" High head  
 Imp. Code 462 (1 $\phi$ ), 483 (3 $\phi$ )  
 6" Std., Imp. Code 433 (1 $\phi$ ), 432 (3 $\phi$ )  
 8" Std., Imp. Code 412 (1 $\phi$ ), 411 (3 $\phi$ )  
 Hose connection: 4" & 6" NPSM threaded, or  
 4", 6" & 8" slip-on  
 Pump dimensions: 31 1/2" W (max.) x 30 3/4" H (max.)  
 Max. weight (lbs.): 400  
 Description: Cast iron construction; closed  
 solids handling impeller with  
 thrulet, wear ring; rests on stand.  
 Options: Explosion proof (FM approved)  
 variant 3127.091  
 Warm liquid version available



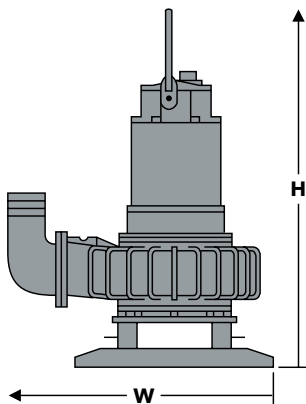
## CS3152



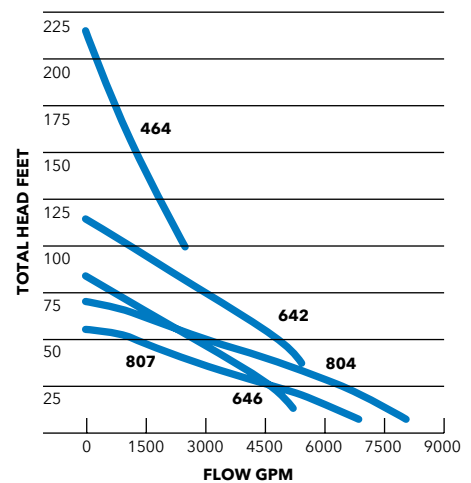
Model number: 3152.181  
 Motor rating: 14HP @ 1160 RPM  
 15HP @ 1745 RPM  
 20HP @ 1750 RPM  
 23HP @ 3500 RPM  
 Voltage (3 $\phi$ , 14 / 15HP): 200V 230V 460V 575V  
 Full load amps: 41/45 37/39 18/20 14/16  
 Voltage (3 $\phi$ , 20 / 23HP): 200V 230V 460V 575V  
 Full load amps: 58/61 51/53 26/26 20/21  
 Versions: 4" High head  
 Imp. Code 454 (20HP), 268 (SH, 23HP)  
 6" Standard, Imp. Code 436 (15HP)  
 10" High Volume, Imp. Code 620 (14HP)  
 Hose connection: 4" & 6" NPSM threaded, or  
 4", 6" & 8" slip-on  
 Pump dimensions: 42" W (max.) x 48-1/4" H (max.)  
 Max. weight (lbs.): 940  
 Description: Cast iron construction; closed  
 solids handling impeller with  
 thrulet, wear ring; rests on stand.  
 Options: Explosion proof (FM approved)  
 variant 3127.091  
 Warm liquid version available



## CS 3300



Model number: 3300.181  
 Motor rating: 60HP@1170 RPM & 875 RPM  
 45 HP@875 RPM  
 75 HP, 88 HP@1170 RPM  
 Voltage (3 $\phi$ , 60HP): 460V 575V  
 Full load amps: 73/80A 58/65A  
 Voltage (3 $\phi$ , 45/75/88 HP): 460V 575V  
 Full load amps: 60/91/108A 48/73/86A  
 Versions: 6" High head, Imp. Code 464 (88 HP)  
 8" Standard  
 Imp. Code 646 (60HP), 642 (75 HP)  
 10" High volume  
 Imp. Code 807 (45HP), 804 (60HP)  
 Hose connection: Slip-on  
 Pump dimensions: 66" W (max.) x 75 3/4" H (max.)  
 Max. weight (lbs.): 1915  
 Description: Cast iron construction; closed  
 solids handling impeller with  
 thrulet, wear ring; rests on stand.  
 Options: Explosion proof (FM approved)  
 variant 3300.091

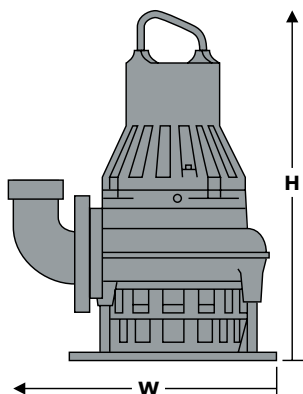


# 3000 Series N-Pump Sewage Pumps

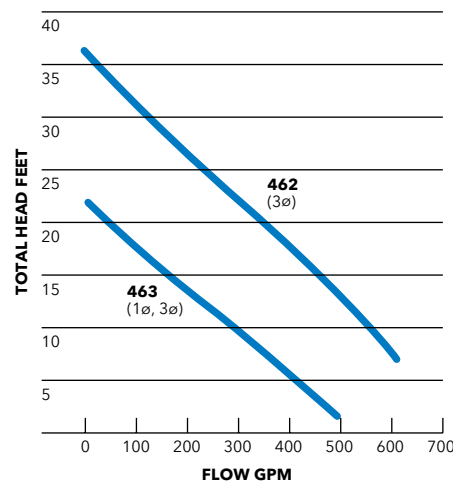
## N-IMPELLERS

These pumps are equipped with Flygt's innovative "self-cleaning" N-impeller. The open impeller works with a special relief groove at the bottom of the volute to continually keep it free from solids build-up. This proven design not only reduces clogging but also ensures continued long-term efficiencies, which significantly reduce electrical operating costs. An excellent choice where troublesome solids are present in the water to be pumped.

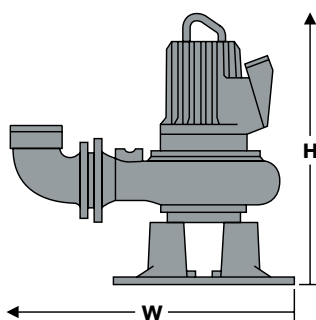
### NS 3085



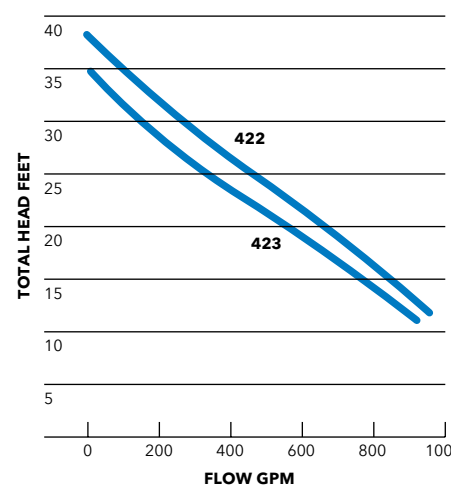
Model number: 3085.183  
 Motor rating: 1 $\phi$ : 2.4 HP@1750 RPM  
 3 $\phi$ : 2.2, 3 HP@1750 RPM  
 Voltage (1 $\phi$ ): 230V  
 Full load amps: 10A  
 Voltage (3 $\phi$ ): 200V    230V  
 Full load amps: 7.8/10A    6.7/9A  
 460V    575V  
 3.4/4.5A    2.7/3.6A  
 Versions: 3" Standard  
 Imp. Code 463 (1 $\phi$ , 3 $\phi$ ), 462 (3 $\phi$ )  
 Hose connection: NPSM threaded, or slip-on  
 Pump dimensions: 17<sup>3</sup>/<sub>4</sub>" W (max.) x 24<sup>1</sup>/<sub>4</sub>" H (max.)  
 Max. weight (lbs.): 175  
 Description: Cast iron construction; semi-open, backswept multi-vane, self-cleaning impeller; rests on stand.  
 Options: Explosion proof (FM approved) variant 3085.092  
 Warm liquid version available



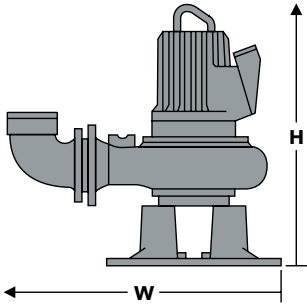
### NS 3102



Model number: 3102.181  
 Motor rating: 5 HP@1730 RPM  
 Voltage (3 $\phi$ ): 200V    230V    460V    575V  
 Full load amps: 15A    13A    6.6A    5.3A  
 Versions: 4" & 6" High volume  
 Imp. Code 422, 423  
 Hose connection: NPSM threaded, or slip-on  
 Pump dimensions: 27" W (max.) x 28<sup>1</sup>/<sub>2</sub>" H (max.)  
 Max. weight (lbs.): 118  
 Description: Cast iron construction; semi-open, backswept multi-vane, self-cleaning impeller; rests on stand.  
 Options: Explosion proof (FM approved) variant 3102.090  
 Warm liquid version available



## NS 3127



Model number: 3127.185  
 Motor rating: 1ø: 7.5HP@1730 RPM  
 3ø: 10HP@1740 RPM

Voltage (1ø): 230V  
 Full load amps: 30A

Voltage (3ø): 200V 230V 460V 575V  
 Full load amps: 29A 26A 13A 10A

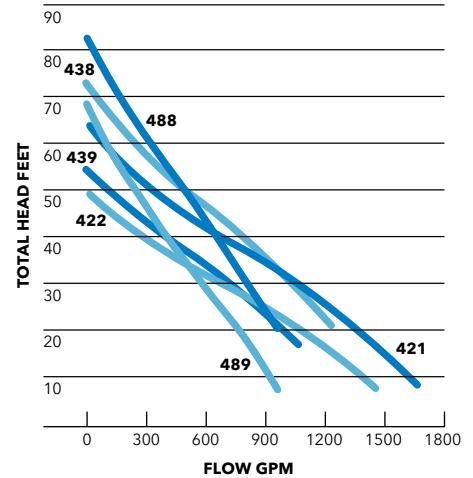
Versions: 4" & 8" Standard  
 Imp. Code 420 (1ø), 438 (3ø)  
 8" High volume  
 Imp. Code 422 (1ø), 421 (3ø)  
 4" High head  
 Imp. Code 489 (1ø), 488 (3ø)

Hose connection: 4" & 6" NPSM threaded, or slip-on  
 4", 6" & 8" Slip-on

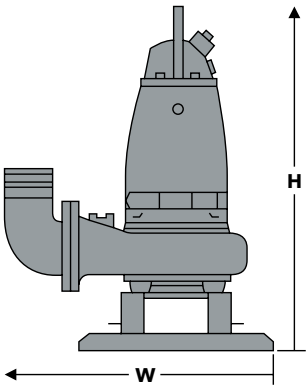
Pump dimensions: 31 1/2" W (max.) x 30 3/4" H (max.)  
 Max. weight (lbs.): 400

Description: Cast iron construction; semi-open, backswept multi-vane, self-cleaning impeller; rests on stand.

Options: Explosion proof (FM approved) variant 3127.095  
 Warm liquid version available



## NS 3153



Model number: 3153.185  
 Motor rating: 20HP@1755 RPM  
 23HP@3510 RPM

Voltage (3ø): 200V 230V 460V 575V  
 Full load amps: 59A 52A 26A 21A

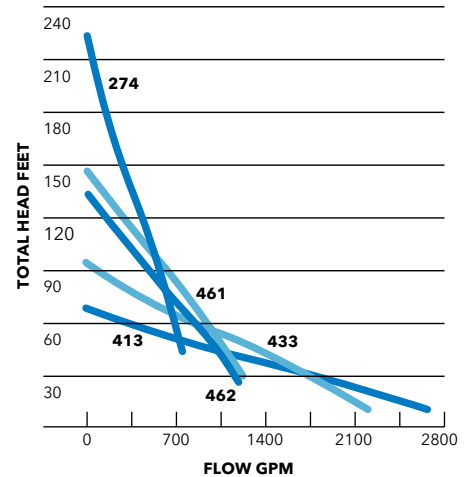
Versions: 4" Super high head, Imp. Code 274  
 4" High head, Imp. Code 461  
 6" Standard, Imp. Code 433  
 8" High volume, Imp. Code 413

Hose connection: 4", 6" & 8" Slip-on

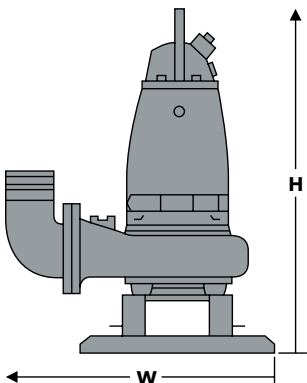
Pump dimensions: 42" W (max.) x 47 1/4" H (max.)  
 Max. weight (lbs.): 840 - High volume, 530 - Standard

Description: Cast iron construction; semi-open, backswept multi-vane, self-cleaning impeller; rests on stand.

Options: Explosion proof (FM approved) variant 3153.095



## NS 3171



Model number: 3171.185  
 Motor rating: 25HP@1160 RPM  
 30HP@1740 RPM

Voltage (3ø): 230V 460V  
 Full load amps: 64/74 32/37  
 575V

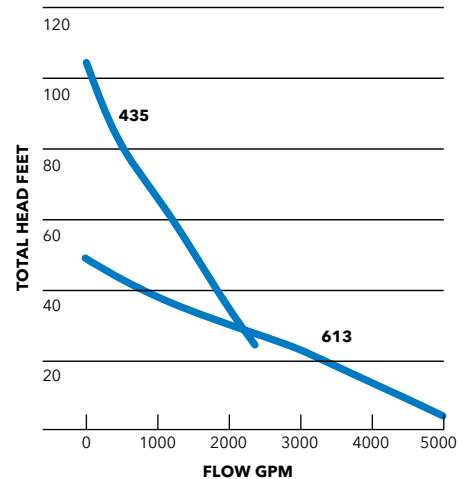
Versions: 6" Standard, Imp. Code 435  
 10" High volume, Imp. Code 613

Hose connection: 6" & 10" Slip-on

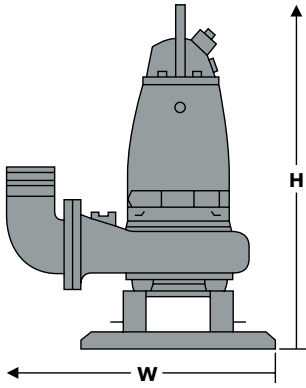
Pump dimensions: 45 1/2" W (max.) x 51 1/4" H (max.)  
 Max. weight (lbs.): 1060 - High volume, 770 - Standard

Description: Cast iron construction; semi-open, backswept multi-vane, self-cleaning impeller; rests on stand.

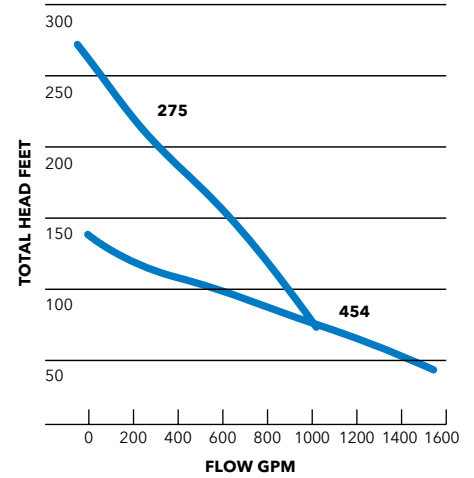
Options: Explosion proof (FM approved) variant 3171.095



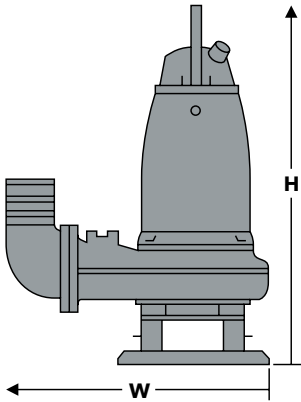
## NS 3171 (Continued)



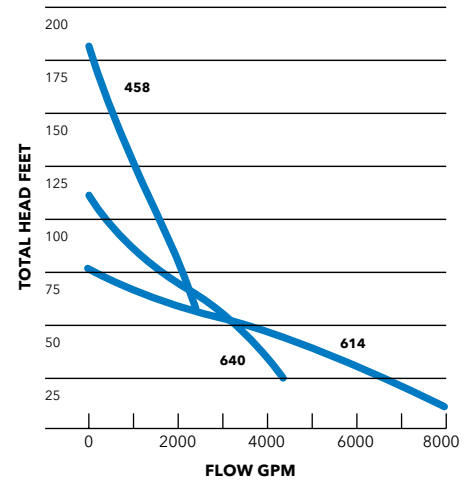
Model number: 3171.185  
 Motor rating: 30 HP@1740 RPM  
 34 HP@3525 RPM  
 Voltage (3Ø): 230V 460V  
 Full load amps: 74/79A 37/40A  
 575V  
 25/30/31A  
 Versions: 4" Super high head  
 Imp. Code 275  
 4" High head  
 Imp. Code 454  
 Hose connection: 4", 6" & 10" Slip-on  
 Pump dimensions: 45<sup>1</sup>/<sub>2</sub>" W (max.) x 51<sup>1</sup>/<sub>4</sub>" H (max.)  
 Max. weight (lbs.): 1060 - High volume, 770 - Standard  
 Description: Cast iron construction; semi-open, backswept multi-vane, self-cleaning impeller; rests on stand.  
 Options: Explosion proof (FM approved) variant 3171.095



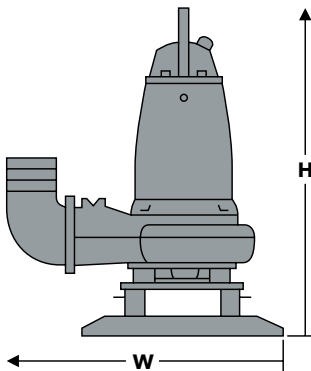
## NS 3202



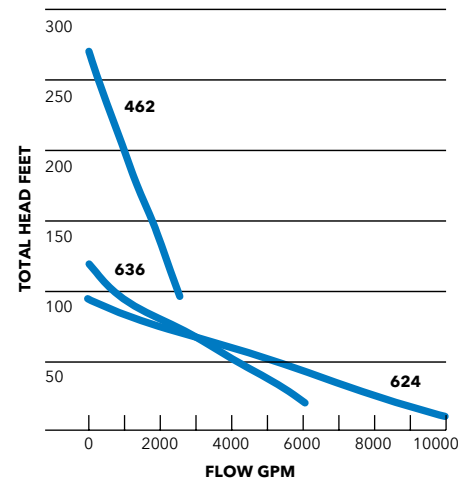
Model number: 3202.185  
 Motor rating: 60 HP@1170 RPM & 1775 RPM  
 70 HP@1775 RPM  
 Voltage (3Ø): 460V 575V  
 Full load amps: 72/68/80A 58/55/63A  
 Versions: 6" High head  
 Imp. Code 458  
 8" Standard  
 Imp. Code 640  
 10" High volume  
 Imp. Code 614  
 Hose connection: 6", 8" & 10" Slip-on  
 Pump dimensions: 52<sup>1</sup>/<sub>2</sub>" W (max.) x 62" H (max.)  
 Max. weight (lbs.): 1985 - High volume  
 1340 - Standard  
 Description: Cast iron construction; semi-open, backswept multi-vane, self-cleaning impeller; rests on stand.  
 Options: Explosion proof (FM approved) variant 3202.095



## NS 3301



Model number: 3301.185  
 Motor rating: 85 HP@1185 RPM  
 105 HP@1780 RPM  
 Voltage (3Ø): 460V 575V  
 Full load amps: 109/121A 88/97A  
 Versions: 6" High head  
 Imp. Code 462  
 10" Standard  
 Imp. Code 636  
 12" High volume  
 Imp. Code 624  
 Hose connection: 6", 10" & 12" Slip-on  
 Pump dimensions: 56<sup>3</sup>/<sub>4</sub>" W (max.) x 67<sup>1</sup>/<sub>4</sub>" H (max.)  
 Max. weight (lbs.): 1985 - High volume  
 1340 - Standard  
 Description: Cast iron construction; semi-open, backswept multi-vane, self-cleaning impeller; rests on stand.  
 Options: Explosion proof (FM approved) variant 3301.095

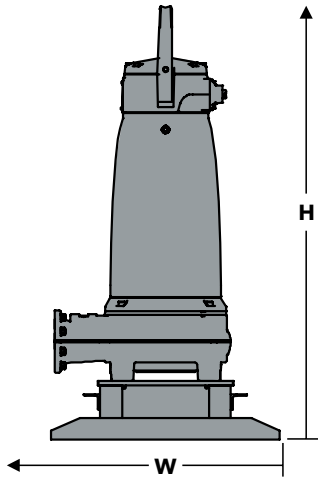




# 3000 Series Heavy-Duty Sewage Pumps for Rental

When higher capacity is required, these models deliver unprecedented pumping power - reliably and efficiently.

## NS 3315

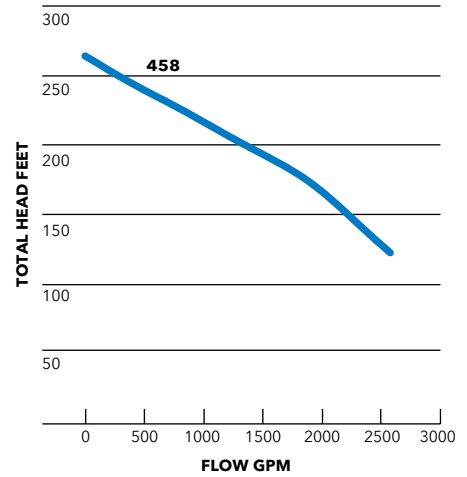


Model number: 3315.090  
 Motor Rating: 160HP @ 1780 RPM

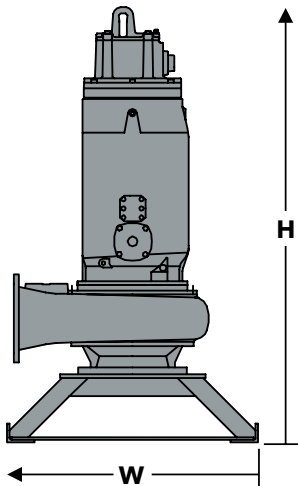
Voltage: 460V  
 Full load amps: 190  
 Versions: 6" High Head  
 Imp. Code 458

Hose connection: NPSM threaded  
 Pump dimensions: 40 1/8" W x 78 1/2" H  
 Max. weight (lbs.): 2690  
 Description: Cast iron construction;  
 semi-open, backswept  
 multi-vane, self-cleaning  
 impeller; rests on bottom stand.

Options: Explosion proof (FM approved)



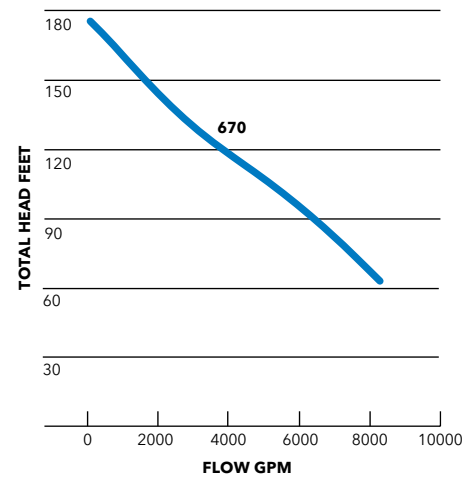
## NS 3312



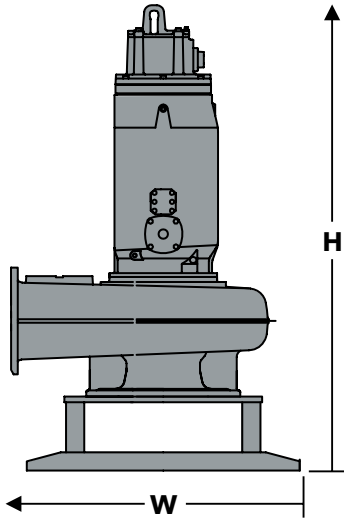
Model number: 3312/746  
 Motor Rating: 215HP @ 1185 RPM

Voltage: 460V  
 Full load amps: 254  
 Versions: 12" Standard  
 Imp. Code 670 (455mm trim)

Hose connection: ANSI Flange  
 Pump dimensions: 52 5/8" W x 93 3/4" H  
 Max. weight (lbs.): 5126  
 Description: Cast iron construction;  
 semi-open, backswept  
 multi-vane, self-cleaning  
 impeller; rests on bottom stand.



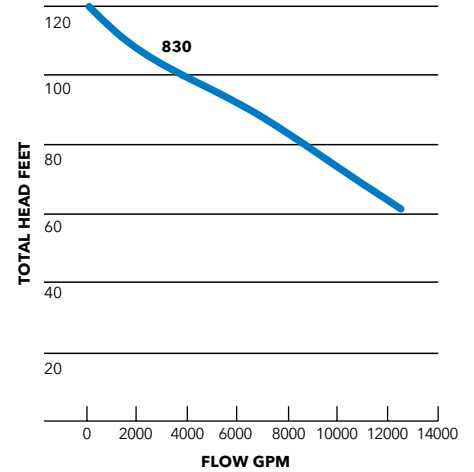
## CS 3400



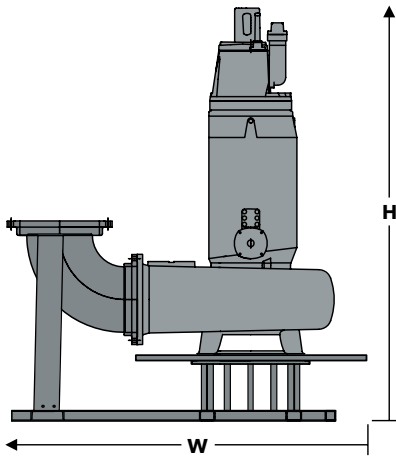
Model number: 3400/805  
 Motor Rating: 240HP @ 890 RPM

Voltage: 460V  
 Full load amps: 295  
 Versions: 16" Standard  
 Imp. Code 830  
 (510mm trim)

Hose connection: ANSI Flange  
 Pump dimensions: 63 1/2" W x 102 1/2" H  
 Max. weight (lbs.): 6350  
 Description: Cast iron construction;  
 closed solids-handling  
 impeller with thrulet,  
 wear ring; rests on stand.



## CS 3531



Model number: 3531/835  
 Motor Rating: 335HP @ 890 RPM

Voltage: 460V  
 Full load amps: 430  
 Versions: 20" Standard  
 Imp. Code 840  
 (560mm trim)

Hose connection: 24" ANSI Flange Elbow  
 Pump dimensions: 102" W x 132" H  
 Max. weight (lbs.): 13,405 (including stand,  
 elbow, vortex plate  
 Description: Cast iron construction;  
 closed solids-handling  
 impeller with thrulet,  
 wear ring; rests on stand.

